

Project Title	Funding	Strategic Plan Objective	Institution
Multimodal Developmental Neurogenetics of Females with ASD	\$2,703,126	Q2.S.B	Yale University
Disrupted Network Activity in Neonatal Cortex of Mouse Models of Autism	\$125,000	Q2.S.B	Yale University
Regulation of cortical circuits by tsc1 in GABAergic interneurons	\$0	Q2.S.B	Yale University
Role of GABA interneurons in a genetic model of autism	\$0	Q2.S.D	Yale University
Astrocytes contribution to tuberous sclerosis pathology	\$208,125	Q2.S.D	Yale University
Genetic investigations of motor stereotypies	\$0	Q2.S.G	Yale University
2/2 Somatic mosaicism and autism spectrum disorder	\$796,055	Q2.S.G	Yale University
Neural Correlates of Biological Motion Perception in Children with ASD	\$177,012	Q2.L.A	Yale University
Undergraduate Research Award	\$0	Q2.L.A	Yale University
Near-infrared spectroscopy studies of early neural signatures of autism	\$0	Q2.L.B	Yale University
Corticogenesis and Autism Spectrum Disorders: New Hypotheses on Transcriptional Regulation of Embryonic Neurogenesis by FGFs from In Vivo Studies and RNA-sequencing Analysis of Mouse Brain	\$29,993	Q2.Other	Yale University
Functional Genomics of Human Brain Development	\$1,313,408	Q2.Other	Yale University
Functional Genomics of Human Brain Development	\$317,764	Q2.Other	Yale University
Integrative Regulatory Network Analysis of iPSCs Derived Neuronal Progenitors from Macrocephalic ASD Individuals in a Family-based Design	\$60,000	Q2.Other	Yale University
Social Brain Networks for the Detection of Agents and Intentions	\$316,250	Q2.Other	Yale University
Neural markers of shared gaze during simulated social interactions in ASD	\$416,250	Q2.Other	Yale University
Functional analysis of EPHB2 mutations in autism - Project 1	\$0	Q2.Other	Yale University
Attention & word learning in children with ASD- Translating experimental findings into intervention	\$0	Q2.Other	Women & Infants Hospital
Modeling Microglial Involvement in Autism Spectrum Disorders, with Human Neuro-glial Co-cultures	\$30,000	Q2.S.D	Whitehead Institute for Biomedical Research
Structural Polarity Influences Terminal Placement and Competition in Formation of the Calyx of Held	\$32,714	Q2.Other	WEST VIRGINIA UNIVERSITY
Local connectivity in altered excitation/inhibition balance states	\$0	Q2.Other	Weizmann Institute of Science
Comprehensive phenotypic characterization of the 17q12 deletion syndrome	\$0	Q2.S.G	Weis Center for Research - Geisinger Clinic
Pathogenic roles of paternal-age-associated mutations in autism	\$62,500	Q2.Other	Weill Cornell Medical College
Sex-specific modulation of ASD liability: Compensatory mechanisms and recurrence	\$266,489	Q2.S.B	Washington University in St. Louis

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Studying Williams Syndrome to Better Characterize Early Social Behavior in ASD	\$0	Q2.S.G	Washington University in St. Louis
PREDICTING PRESCHOOL PSYCHOPATHOLOGY WITH BRAIN CONNECTIVITY IN PRETERM NEONATES	\$169,998	Q2.L.B	Washington University in St. Louis
BRAIN MICROSTRUCTURE & BEHAVIOR IN NEWLY-DIAGNOSED TODDLERS/PRESCHOOLERS WITH ASD	\$236,506	Q2.Other	Washington University in St. Louis
IMAGING BRAIN FUNCTION IN CHILDREN WITH AUTISM SPECTRUM DISORDERS WITH DIFFUSE OPTICAL TOMOGRAPHY	\$141,211	Q2.Other	Washington University in St. Louis
Identifying a blood-based biomarker for Autism Spectrum Disorder-related inflammatory bowel disease	\$60,000	Q2.S.E	Wake Forest University
Role of Draxin in Forebrain Connectivity and Complex Behaviors	\$179,959	Q2.Other	WADSWORTH CENTER
Investigating the Mechanism of Optic Nerve Hypoplasia Associated with CASK Mutation	\$398,230	Q2.Other	VIRGINIA POLYTECHNIC INST AND ST UNIV
VIP Family Meetings	\$194,646	Q2.S.G	VIP Family Meetings
Genetic and Developmental Analyses of Fragile X Mental Retardation Protein	\$383,322	Q2.S.D	Vanderbilt University
Fragile X syndrome target analysis and its contribution to autism	\$124,725	Q2.S.D	Vanderbilt University
mTOR modulation of myelination	\$179,659	Q2.S.D	Vanderbilt University
FMRP and Pumilio co-regulate synaptogenesis by controlling Neuroglian expression	\$27,480	Q2.S.D	Vanderbilt University
Characterization of the sleep phenotype in adolescents and adults with autism spectrum disorder	\$0	Q2.S.E	Vanderbilt University
Autism Spectrum Disorders and Depression: Shared Mechanisms in Brain and Behavior	\$160,115	Q2.S.E	Vanderbilt University
Nonsocial Interests and Reward Processing in Autism Spectrum Disorders	\$30,000	Q2.L.B	Vanderbilt University
Endocannabinoids in social and repetitive behavioral domains	\$143,751	Q2.L.B	Vanderbilt University
Sensory contributions to autism spectrum disorders and links to social responsiveness	\$27,778	Q2.Other	Vanderbilt University
Behavioral and Neural Variability in Autism Spectrum Disorder	\$56,000	Q2.Other	Vanderbilt University
Research Project: Sensory and Multisensory Contributions to Autism	\$357,191	Q2.Other	Vanderbilt University
Neural networks for attention to internal and external sensory cues in ASD	\$379,582	Q2.Other	Vanderbilt University

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Mapping Thalamocortical Networks Across Development in ASD	\$235,500	Q2.Other	Vanderbilt University
FMRP regulates the pruning of cell-to-cell connections in the neocortex	\$79,500	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER
Mechanisms of mGluR5 function and dysfunction in mouse autism models	\$410,720	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER
Role of MEF2 and neural activity in cortical synaptic weakening and elimination	\$388,354	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER
Mechanisms underlying the Cerebellar Contribution to Autism in Mouse Models of Tuberous Sclerosis Complex	\$190,458	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER
Identification of human-relevant CLOCK molecular signaling pathways	\$201,875	Q2.S.E	UT SOUTHWESTERN MEDICAL CENTER
The role of Foxp1-regulated signaling pathways in brain development and behavior	\$403,750	Q2.S.G	UT SOUTHWESTERN MEDICAL CENTER
Role of autism-associated chromatin remodeler Brg1 in neuronal development	\$198,750	Q2.Other	UT SOUTHWESTERN MEDICAL CENTER
Bidirectional Tyrosine Kinase Signaling	\$523,695	Q2.Other	UT SOUTHWESTERN MEDICAL CENTER
Disruption of Reelin biosynthesis by de novo missense mutations found in aut	\$33,503	Q2.Other	UPSTATE MEDICAL UNIVERSITY
Translational Regulation of Adult Neural Stem Cells	\$372,633	Q2.S.D	University of Wisconsin
Coordinate actions between methyl-CpG binding proteins in neuronal development	\$226,585	Q2.S.D	University of Wisconsin
Biological Determinants of Brain Variation in Autism	\$575,716	Q2.S.G	University of Wisconsin
Spastic paraplegia, neurodegeneration and autism: possible role for AT-1/SLC33A1?	\$330,978	Q2.Other	University of Wisconsin
Characterizing Lexical Processing in Toddlers with Autism Spectrum Disorders	\$544,025	Q2.Other	University of Wisconsin
Executive Function in Children with Typical and Atypical Language Abilities	\$514,484	Q2.Other	University of Wisconsin
Undergraduate Research Award	\$0	Q2.S.B	University of Washington
Neural mechanisms underlying autism behaviors in SCN1A mutant mice	\$100,000	Q2.S.D	University of Washington
Phenotypic Characterization of Gene Disrupting Mutations in ASD	\$435,213	Q2.S.G	University of Washington
Simons Variation in Individuals Project (VIP) Site	\$275,599	Q2.S.G	University of Washington
Inhibitory dysfunction in autism	\$647,425	Q2.Other	University of Washington
Network Optimization of Functional Connectivity in Neuroimaging for Differential Diagnosis of Brain Diseases	\$0	Q2.Other	University of Washington
Bone marrow transplantation and the role of microglia in autism	\$62,380	Q2.S.A	University of Virginia

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Longitudinal Characterization of Functional Connectivity in Autism	\$182,352	Q2.L.A	UNIVERSITY OF UTAH
Multiscale Genetic Connectivity of Primate Social Circuits	\$647,114	Q2.Other	UNIVERSITY OF UTAH
CAREER: Statistical models and classification of time-varying shape	\$0	Q2.Other	University of Utah
Brain Network Development in Normal and Autistic Children	\$187,164	Q2.Other	UNIVERSITY OF UTAH
Tools for manipulating local protein synthesis in the brain	\$148,500	Q2.Other	UNIVERSITY OF TORONTO
Mechanisms of synapse elimination by autism-linked genes	\$0	Q2.S.D	University of Texas Southwestern Medical Center
Genetics Behind Brain Connectivity in ASD	\$25,000	Q2.S.G	University of Texas Southwestern Medical Center
Molecular mechanisms of the synaptic organizer alpha-neurexin	\$388,750	Q2.Other	UNIVERSITY OF TEXAS MEDICAL BR GALVESTON
Altered placental tryptophan metabolism: A crucial molecular pathway for the fetal programming of neurodevelopmental disorders	\$0	Q2.S.A	University of Southern California
The neurobiological basis of heterogeneous social and motor deficits in ASD	\$464,220	Q2.Other	University of Southern California
Biology of Non-Coding RNAs Associated with Psychiatric Disorders	\$416,433	Q2.Other	University of Southern California
A Quantitative Study of Pyramidal Cells and Interneurons in the Cerebral Cortex	\$3,000	Q2.S.D	UNIVERSITY OF SOUTH CAROLINA
Emergence and Stability of Autism in Fragile X Syndrome	\$358,000	Q2.S.D	UNIVERSITY OF SOUTH CAROLINA
Supplement to The Emergence and Stability of Autism in Fragile X Syndrome	\$82,061	Q2.S.D	UNIVERSITY OF SOUTH CAROLINA
Profiles and Predictors of Pragmatic Language Impairments in the FMR1 Premutation	\$55,796	Q2.S.D	UNIVERSITY OF SOUTH CAROLINA
AUDITORY AND INTEGRATIVE FUNCTIONS OF THE PREFRONTAL CORTEX	\$370,498	Q2.Other	University of Rochester
Engrailed targets and the control of synaptic circuits in Drosophila	\$375,000	Q2.Other	UNIVERSITY OF PUERTO RICO MED SCIENCES
Early Life Seizures Disrupt Critical Period Plasticity	\$413,020	Q2.S.E	University of Pennsylvania
Early Life Seizures Disrupt Critical Period Plasticity	\$135,045	Q2.S.E	University of Pennsylvania
Statistical methodology and analysis of the Simons Simplex Collection and related data	\$197,422	Q2.S.G	University of Pennsylvania
Magnetoencephalographic studies of lexical processing and abstraction in autism	\$306,829	Q2.Other	University of Pennsylvania
Contribution of cerebellar CNTNAP2 to autism in a mouse model	\$0	Q2.Other	University of Oxford

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Neurobiological foundations of self-conscious emotion understanding in adolescents with ASD	\$30,000	Q2.Other	University of Oregon
Anti-Neuronal Autoantibodies against Bacterial Polysaccharides in Autism Spectrum Disorders	\$0	Q2.S.A	University of Oklahoma Health Sciences Center
Modeling Pitt-Hopkins Syndrome, an Autism Spectrum Disorder, in Transgenic Mice Harboring a Pathogenic Dominant Negative Mutation in TCF4	\$0	Q2.S.D	University of North Carolina
Cell-type and circuit-specific functional deficits in cortex from gene disruptions linked to autism	\$30,000	Q2.S.D	University of North Carolina
Role of UBE3A in the Central Nervous System	\$321,269	Q2.S.D	University of North Carolina
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$0	Q2.S.E	University of North Carolina
Genome-wide Identification of Variants Affecting Early Human Brain Development	\$370,249	Q2.S.G	University of North Carolina
A Longitudinal MRI Study of Infants at Risk for Autism	\$2,401,906	Q2.L.A	University of North Carolina
The Elongation Hypothesis of Autism	\$760,000	Q2.Other	University of North Carolina
Neural Synchrony and Plasticity in Children with Autism	\$56,100	Q2.Other	University of North Carolina
Correcting excitatory-inhibitory imbalance in autism	\$225,000	Q2.Other	University of North Carolina
Neural Circuits That Regulate Social Motivation in Autism	\$150,542	Q2.Other	University of North Carolina
Visualizing neural circuits of social sensory processing	\$62,500	Q2.Other	University of North Carolina
Maternal Immune Activation in a Genetic Mouse Model of ASD	\$387,961	Q2.S.A	University of Nebraska
Mechanisms of synaptic alterations in a neuroinflammation model of autism	\$0	Q2.S.A	University of Nebraska
Mechanisms of Motor Skill Learning in the Fragile X Mouse Model	\$300,434	Q2.S.D	University of Nebraska
A Novel Glial Specific Isoform of Cdkl5: Implications for the Pathology of Autism in Rett Syndrome	\$60,000	Q2.S.D	University of Nebraska
Novel candidate mechanisms of fragile X syndrome	\$248,235	Q2.S.D	UNIVERSITY OF MICHIGAN
Dendritic 'translatome' in fragile X syndrome and autism	\$0	Q2.S.D	University of Michigan
Brain Somatic Mosaicism at ASD-Associated Loci	\$25,000	Q2.Other	University of Michigan
Investigating the Role of RBFOX1 in Autism Etiology	\$30,000	Q2.Other	University of Miami
Cognitive and Neural Flexibility in Autism	\$480,296	Q2.Other	University of Miami
Reconceptualizing Brain Connectivity and Development in Autism	\$30,000	Q2.Other	University of Miami
The IL-17 pathway in the rodent model of autism spectrum disorder	\$90,000	Q2.S.A	University of Massachusetts, Worcester

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Functional analysis of Neuroligin-Neurexin interactions in synaptic transmission	\$336,875	Q2.Other	University of Massachusetts, Worcester
Thalamocortical circuit defects in developmental brain disorders	\$490,462	Q2.S.D	University of Maryland
Development of auditory circuits in mouse models of autism	\$54,194	Q2.Other	University of Maryland
BRAIN MECHANISMS OF AFFECTIVE LANGUAGE COMPREHENSION IN AUTISM SPECTRUM DISORDERS	\$0	Q2.Other	University of Maryland
How autism affects speech understanding in multiterminal environments	\$0	Q2.Other	University of Maryland
Neuropathology of the Shank3 mouse model for autism	\$0	Q2.S.D	University of Louisville
Children with 7q11.23 duplication syndrome: shared characteristics with autism	\$125,000	Q2.S.G	University of Louisville
BRIGE: Emotion mapping of children through human-robot interaction and affective computing	\$0	Q2.Other	University of Louisville
16p11.2 rearrangements: Genetic paradigms for neurodevelopmental disorders	\$100,000	Q2.S.D	University of Lausanne
SHB: Type II (INT): Synthesizing self-model and mirror feedback imageries with applications to behavior modeling for children with autism	\$0	Q2.Other	University of Kentucky
Molecular Dissection of Calmodulin Domain Functions	\$321,473	Q2.Other	UNIVERSITY OF IOWA
Dysregulation of Mdm2-mediated p53 ubiquitination in autism mouse models	\$0	Q2.S.D	University of Illinois at Chicago
Beta-catenin signaling in autism spectrum disorders	\$0	Q2.S.G	University of Illinois at Chicago
A mouse model for AUTS2-linked neurodevelopmental disorders	\$189,187	Q2.S.D	University of Illinois
Social interaction and reward in autism: Possible role for ventral tegmental area	\$0	Q2.Other	University of Geneva
Refining the Tourette Syndrome phenotype across diagnoses to aid gene discovery	\$104,613	Q2.Other	UNIVERSITY OF FLORIDA
Molecular mechanisms linking early life seizures, autism and intellectual disability	\$331,905	Q2.S.E	University of Colorado, Denver
BDNF regulation of the cortical neuron transcriptome	\$76,792	Q2.Other	University of Colorado, Denver
24.0	\$197,500	Q2.S.E	UNIVERSITY OF CHICAGO
Action anticipation in infants	\$0	Q2.Other	University of Chicago
Development of a connectomic functional brain imaging endophenotype of autism	\$13,664	Q2.Other	University of Cambridge
Using fMRI to understand the Neural Mechanisms of Pivotal Response Treatment	\$0	Q2.L.B	University of California, Santa Barbara

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Sexually dimorphic gene-expression and regulation to evaluate ASD sex bias	\$125,000	Q2.S.B	University of California, San Francisco
Linking circuit dynamics and behavior in a rat model of autism	\$0	Q2.S.D	University of California, San Francisco
Dissecting the 16p11.2 CNV endophenotype in induced pluripotent stem cells	\$54,400	Q2.S.D	University of California, San Francisco
Simons Variation in Individuals Project (VIP) Functional Imaging Site	\$385,668	Q2.S.G	University of California, San Francisco
A gene-driven systems approach to identifying autism pathology	\$998,627	Q2.S.G	University of California, San Francisco
Prefrontal corticothalamic circuits in autism	\$178,646	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Variation in Neuroligin Concentration and Presynaptic Functional Development	\$237,438	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Regulation of Interneuron Development in the Cortex and Basal Ganglia by Coup-TF2	\$30,000	Q2.Other	University of California, San Francisco
Refining the Tourette Syndrome phenotype across diagnoses to aid gene discovery	\$299,537	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Role of Autism Susceptibility Gene, TAOK2 kinase, and its novel substrates in Synaptogenesis	\$120,904	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
A computational framework for predicting the impact of mutations in autism	\$431,352	Q2.S.G	University of California, San Diego
The Interplay Between Human Astrocytes and Neurons in Psychiatric Disorders	\$25,000	Q2.Other	University of California, San Diego
Signaling Pathways that Regulate Excitatory-inhibitory Balance	\$30,000	Q2.Other	University of California, San Diego
Reproducible protocols for robust cortical neuron and astroglial differentiation	\$500,132	Q2.Other	University of California, San Diego
Protein network of high risk copy number variants for psychiatric disorders	\$193,750	Q2.Other	University of California, San Diego
Single-cell approaches to deconvolution of disease-associated signals	\$817,969	Q2.Other	University of California, San Diego
Genomics Core	\$142,154	Q2.Other	University of California, San Diego
Atypical architecture of prefrontal cortex in young children with autism	\$0	Q2.Other	University of California, San Diego
Neural basis of cross-modal influences on perception	\$0	Q2.Other	University of California, San Diego
Identification of genetic pathways that regulate neuronal circuits in C. elegans	\$54,194	Q2.Other	University of California, San Diego
High content assays for cellular and synaptic phenotypes	\$462,191	Q2.Other	University of California, San Diego
Intra-Prenatal Origins of Neurometabolic Consequences	\$319,550	Q2.S.A	University of California, Los Angeles

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Neuroimaging signatures of autism: Linking brain function to genes and behavior	\$190,558	Q2.S.G	University of California, Los Angeles
Genetic and genomic analyses to connect genes to brain to cognition in ASD	\$253,652	Q2.S.G	University of California, Los Angeles
Identification and validation of genetic variants which cause the Autism Macrocephaly subphenotype	\$29,500	Q2.S.G	University of California, Los Angeles
TSC/mTOR Signaling in Adult Hippocampal Neurogenesis: Impact on Treatment and Behavioral Models of Autism Spectrum Disorders in Mice	\$7,769	Q2.Other	University of California, Los Angeles
Optogenetic treatment of social behavior in autism	\$60,236	Q2.Other	University of California, Los Angeles
Optogenetic treatment of social behavior in autism	\$385,000	Q2.Other	University of California, Los Angeles
A Role for Cytoplasmic Rbfox1/A2BP1 in Autism	\$30,000	Q2.Other	University of California, Los Angeles
Transcriptional Regulators in Normal Human Brain Development and Autism	\$21,100	Q2.Other	University of California, Los Angeles
Abnormal connectivity in autism	\$0	Q2.Other	University of California, Los Angeles
Modeling multiple heterozygous genetic lesions in autism using Drosophila melanogaster	\$101,373	Q2.Other	University of California, Los Angeles
A functional genomic analysis of the cerebral cortex	\$0	Q2.Other	University of California, Los Angeles
BDNF and the Restoration of Synaptic Plasticity in Fragile X and Autism	\$455,630	Q2.S.D	University of California, Irvine
Cortactin and Spine Dysfunction in Fragile X	\$33,763	Q2.S.D	University of California, Irvine
Dual modulators of GABA-A and Alpha7 nicotinic receptors for treating autism	\$0	Q2.Other	University of California, Irvine
Immune signaling in the developing brain in mouse models of ASD	\$200,000	Q2.S.A	University of California, Davis
Project 3: Immune Environment Interaction and Neurodevelopment	\$107,931	Q2.S.A	University of California, Davis
DETECTING THE TRANSFER OF MATERNAL ANTIBODIES INTO THE FETAL RHESUS MONKEY BRAIN	\$233,500	Q2.S.A	University of California, Davis
Neural Phenotypes of Females with Autism Spectrum Disorder	\$173,011	Q2.S.B	University of California, Davis
Neural Phenotypes of Females with Autism Spectrum Disorder	\$675,236	Q2.S.B	University of California, Davis
Language Development in Fragile X Syndrome	\$495,501	Q2.S.D	University of California, Davis
Genotype-Phenotype Relationships in Fragile X Families	\$633,789	Q2.S.D	University of California, Davis
Mechanisms underlying word learning in fragile X syndrome and nonsyndromic ASD	\$156,333	Q2.S.D	University of California, Davis
THE ROLE OF MECP2 IN RETT SYNDROME	\$356,699	Q2.S.D	University of California, Davis

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Shared and Distinct Developmental Pathways to ADHD and Autism Spectrum Disorder	\$82,062	Q2.S.E	University of California, Davis
Neurophenotypic Trajectories and Behavioral Outcomes in Autism Spectrum Disorder	\$770,599	Q2.L.A	University of California, Davis
Predictors of Cognitive Development in Autism Spectrum Disorder	\$504,641	Q2.L.A	University of California, Davis
a-Actinin Regulates Postsynaptic AMPAR Targeting by Anchoring PSD-95	\$15,000	Q2.Other	University of California, Davis
Alterations of the human brain structural connectome in preschool aged children with ASD	\$30,000	Q2.Other	University of California, Davis
Project 4: Calcium Signaling Defects in Autism (Pessah/Lein)	\$107,518	Q2.Other	University of California, Davis
Cellular Density and Morphology in the Autistic Temporal Human Cerebral Cortex	\$365,795	Q2.Other	University of California, Davis
Axonal Ultrastructure of Temporal White Matter in Autism	\$78,250	Q2.Other	University of California, Davis
Typical and Pathological Cellular Development of the Human Amygdala	\$385,000	Q2.Other	University of California, Davis
Cell-specific molecular mechanisms underlying brain pathology in ASD	\$274,021	Q2.Other	University of California, Davis
CHARACTERIZATION OF OXYTOCIN RECEPTORS IN AUTISM SPECTRUM DISORDER	\$220,839	Q2.Other	University of California, Davis
Rapid screening for cortical circuit dysfunction in autism-related mouse models	\$0	Q2.S.D	University of California, Berkeley
Inhibitory mechanisms for sensory map plasticity in cerebral cortex.	\$326,282	Q2.Other	University of California, Berkeley
Autism Linked LRRTM4-Heparan Sulphate Proteoglycan Complex Functions in Synapse Development	\$29,479	Q2.S.G	University of British Columbia
Mitochondrial Dysfunction and Autism Spectrum Disorders-Inflammatory Subtype	\$56	Q2.S.A	University of Arkansas
MAGEL2, a candidate gene for autism and Prader-Willi syndrome	\$105,977	Q2.S.D	University of Alberta
Elevated serum neurotensin and CRH levels in children with autistic spectrum disorders and tail-chasing Bull Terriers with a phenotype similar to autism.	\$0	Q2.S.A	Tufts University
Deficits in KCC2 activity and the pathophysiology of Autism spectrum disorders	\$247,500	Q2.Other	Tufts University
Neuronal translation in Tsc2+/- and Fmr1-/y mutant ASD mouse models	\$62,500	Q2.S.D	The Trustees of Columbia University in the City of New York
Impact of Pten mutations: brain growth trajectory and scaling of cell types	\$60,000	Q2.Other	The Scripps Research Institute

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Impact of SynGAP1 Mutations on Synapse Maturation and Cognitive Development	\$614,568	Q2.Other	The Scripps Research Institute
Neural basis underlying autistic behaviors	\$240,000	Q2.Other	The Scripps Research Institute
BAZ1B Haploinsufficiency and the Neuro-phenotypes of Williams Syndrome	\$59,000	Q2.S.D	The Regents of the University of California, Santa Barbara
Delineating the role of Ras/MAPK signaling in 16p11.2 phenotypes	\$125,000	Q2.Other	The Regents of the University of California, San Francisco (Contracts & Grants)
Illuminating the role of glia in a zebrafish model of Rett syndrome	\$62,500	Q2.S.D	The Regents of the University of California, San Diego
Translational dysregulation of the RhoA pathway in autism	\$125,605	Q2.Other	The Regents of the University of California, San Diego
Parameterizing Neural Habituation in ASD with Sensory Overresponsivity	\$62,479	Q2.Other	The Regents of the University of California, Los Angeles
An investigation of inductive learning in autism	\$59,770	Q2.Other	The Regents of the University of California, Berkeley
Antigenic Specificity and Neurological Effects of Monoclonal Anti-brain Antibodies Isolated from Mothers of a Child with Autism Spectrum Disorder: Toward Protection Studies	\$30,000	Q2.S.A	The Feinstein Institute for Medical Research
Neurobiology of Rai1, a critical gene for syndromic ASDs	\$87,500	Q2.S.D	The Board of Trustees of the Leland Stanford Junior University (Stanford)
Mouse Model of Dup15q Syndrome	\$32,635	Q2.S.D	Texas AgriLife Research
Undergraduate Research Award	\$3,000	Q2.S.D	Texas A&M University
Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$0	Q2.Other	TERC Inc
The neurophysiology of sensory processing and multisensory integration in ASD	\$426,311	Q2.Other	SYRACUSE UNIVERSITY
Folate receptor autoimmunity in Autism Spectrum Disorders	\$149,963	Q2.S.A	State University of New York, Downstate Medical Center
IMAGING DEPRESSION IN ADULTS WITH ASD	\$0	Q2.S.E	State University New York, Stony Brook
GABRB3 and Placental Vulnerability in ASD	\$581,537	Q2.S.A	STANFORD UNIVERSITY
Synergy between genetic risk and placental vulnerability to immune events	\$250,874	Q2.S.A	Stanford University
Behavioral, Cognitive, and Neural Signatures of Autism in Girls: Towards Big Data Science in Psychiatry	\$30,000	Q2.S.B	Stanford University
Longitudinal MRI Study of Brain Development in Fragile X	\$769,619	Q2.S.D	STANFORD UNIVERSITY
Effects of Social Gaze Training on Brain and Behavior in Fragile X Syndrome	\$352,066	Q2.S.D	STANFORD UNIVERSITY
Investigating the role of Tsc1 in neocortical circuit assembly	\$52,406	Q2.S.D	STANFORD UNIVERSITY

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Sleep Disordered Breathing, Microparticles and Proinflammation in ASD	\$60,000	Q2.S.E	Stanford University
Decoding Affective Prosody and Communication Circuits in Autism	\$281,028	Q2.L.B	Stanford University
Imaging-based real-time feedback to enhance therapeutic intervention in ASD	\$0	Q2.L.B	Stanford University
Social Motivations and Striatal Circuit Development in Children and Adolescents with Autism	\$0	Q2.L.B	Stanford University
PHENOTYPING ASTROCYTES IN HUMAN NEURODEVELOPMENTAL DISORDERS	\$386,607	Q2.Other	STANFORD UNIVERSITY
Decoding Neural Systems Underlying Affective Prosody in Children with Autism	\$175,960	Q2.Other	STANFORD UNIVERSITY
Brain Systems Underlying Episodic Memory for Social Stimuli in Childhood Autism	\$126,252	Q2.Other	STANFORD UNIVERSITY
Gaining insight into psychiatric disease by engineering piece by piece the human brain in vitro.	\$496,813	Q2.Other	STANFORD UNIVERSITY
Role of Neurexin in Synapse Formation and Maintenance	\$59,966	Q2.Other	STANFORD UNIVERSITY
Investigating role of neurexin-1 mutation in autism using human induced neurons	\$56,042	Q2.Other	STANFORD UNIVERSITY
Brain Systems Supporting Learning and Memory in Children with Autism	\$170,779	Q2.Other	STANFORD UNIVERSITY
Mathematical Cognition in Autism: A Cognitive and Systems Neuroscience Approach	\$605,511	Q2.Other	STANFORD UNIVERSITY
Interrogating Synaptic Transmission in Human Neurons	\$30,000	Q2.Other	Stanford University
Induced neuronal cells: A novel tool to study neuropsychiatric diseases	\$680,862	Q2.Other	STANFORD UNIVERSITY
FUNCTION OF NEUREXINS	\$716,276	Q2.Other	STANFORD UNIVERSITY
CLARITY: circuit-dynamics and connectivity of autism-related behavior	\$246,539	Q2.Other	Stanford University
Quantitative Measurements of Cortical Excitability in Neurodevelopmental Disorder	\$237,250	Q2.Other	STANFORD UNIVERSITY
Autism Spectrum Disorder Diagnostic/Therapeutic Agent	\$225,000	Q2.S.A	SPARK2FLAME, INC.
Engrailed genes and cerebellum morphology, spatial gene expression and circuitry	\$639,375	Q2.S.G	SLOAN-KETTERING INST CAN RESEARCH
Social reward in autism: Electrophysiological, behavioral, and clinical correlates	\$0	Q2.Other	SEATTLE CHILDREN'S HOSPITAL
Protein Interaction Network Analysis to Test the Synaptic Hypothesis of Autism	\$249,000	Q2.Other	SEATTLE CHILDREN'S HOSPITAL
Heparan sulfate in neurophysiology and neurological disorders	\$449,744	Q2.Other	SANFORD-BURNHAM MEDICAL RESEARCH INSTIT

Project Title	Funding	Strategic Plan Objective	Institution
Multimodal Imaging of Early Neural Signature in Autism Spectrum Disorder	\$392,186	Q2.L.A	SAN DIEGO STATE UNIVERSITY
The Autistic Brain Over 45: The Anatomic, Functional, and Cognitive Phenotype	\$771,520	Q2.L.A	SAN DIEGO STATE UNIVERSITY
Undergraduate Research Award	\$0	Q2.L.B	SAN DIEGO STATE UNIVERSITY
fMRI and EEG approaches to the resting state in ASD	\$190,411	Q2.Other	SAN DIEGO STATE UNIVERSITY
Integrity and Dynamic Processing Efficiency of Networks in ASD	\$641,036	Q2.Other	SAN DIEGO STATE UNIVERSITY
Multimodal Imaging of Social Brain Networks in ASD	\$149,499	Q2.Other	SAN DIEGO STATE UNIVERSITY
Dissecting neural mechanisms integrating multiple inputs in C. elegans	\$485,000	Q2.Other	SALK INSTITUTE FOR BIOLOGICAL STUDIES
Identification of TSC cellular phenotypes using patient-derived iPSCs	\$193,750	Q2.S.D	Rutgers University
Undergraduate Research Award	\$0	Q2.S.G	Rutgers University
Platform for autism treatments from exome analysis	\$289,390	Q2.S.E	ROCKEFELLER UNIVERSITY
Mosaicism in focal cortical dysplasias spectrum seen in neuropsychiatric disease	\$862,077	Q2.S.G	ROCKEFELLER UNIVERSITY
RNA dysregulation in autism	\$125,000	Q2.Other	ROCKEFELLER UNIVERSITY
Timed mRNA translation events in neocortical development and neurodevelopmental disorders	\$39,720	Q2.Other	RBHS-ROBERT WOOD JOHNSON MEDICAL SCHOOL
Caspr2 as an autism candidate gene: a proteomic approach to function & structure.	\$318,000	Q2.Other	RBHS-ROBERT WOOD JOHNSON MEDICAL SCHOOL
Self-Regulation and Sleep in Children At Risk for Autism Spectrum Disorders	\$240,004	Q2.S.E	PURDUE UNIVERSITY
Statistical Methods for Ultrahigh-dimensional Biomedical Data	\$294,132	Q2.Other	PRINCETON UNIVERSITY
Connectivity of the Posterior Cerebellum	\$39,720	Q2.Other	PRINCETON UNIVERSITY
Controlling Interareal Gamma Coherence by Optogenetics, Pharmacology and Behavior	\$250,546	Q2.Other	PRINCETON UNIVERSITY
Imaging adaptive cerebellar processing at cellular resolution in awake mice	\$428,215	Q2.Other	PRINCETON UNIVERSITY
Understanding somatosensory deficits in Autism Spectrum Disorder	\$62,500	Q2.Other	President and Fellows of Harvard College
Assessing the Cognitive Deficits Associated with 16p11.2 Deletion Syndrome	\$0	Q2.S.G	Posit Science Corporation
A Massively Parallel Approach to Functional Testing of PTEN Mutations	\$29,980	Q2.S.G	OREGON HEALTH & SCIENCE UNIVERSITY
Computational characterization of language use in autism spectrum disorder	\$692,720	Q2.Other	OREGON HEALTH & SCIENCE UNIVERSITY

Project Title	Funding	Strategic Plan Objective	Institution
Computational characterization of language use in autism spectrum disorder	\$99,966	Q2.Other	OREGON HEALTH & SCIENCE UNIVERSITY
Characterizing mechanistic heterogeneity across ADHD and Autism	\$709,255	Q2.Other	OREGON HEALTH & SCIENCE UNIVERSITY
Chloride homeostasis and GABA maturation in fragile X syndrome	\$231,750	Q2.S.D	Northwestern University
A Family-Genetic Study of Autism and Fragile X Syndrome	\$597,808	Q2.S.D	Northwestern University
A Family-Genetic Study of Autism and Fragile X Syndrome	\$393,739	Q2.S.D	Northwestern University
Pragmatic language and social-emotional processing in autism, fragile X, and the FMR1 premutation	\$0	Q2.S.D	Northwestern University
The flexibility of individuation and ensemble representation	\$54,194	Q2.Other	Northwestern University
UBR7 is a novel chromatin directed E3 ubiquitin ligase	\$225,956	Q2.Other	Northwestern University
DISRUPTION OF TROPHIC INHIBITORY SIGNALING IN AUTISM SPECTRUM DISORDERS	\$0	Q2.Other	Northwestern University
Understanding the Role of Epac2 in Cognitive Function	\$48,120	Q2.Other	Northwestern University
Roles of pro-inflammatory Th17 cells in autism	\$249,729	Q2.S.A	New York University
Cortico-striatal dysfunction in the eIF4E transgenic mouse model of autism	\$62,497	Q2.S.D	New York University
Translation, Synchrony, and Cognition	\$380,953	Q2.S.D	New York University
Neural and cognitive discoordination in autism-related mouse models	\$280,480	Q2.S.D	New York University
Imaging markers of brain malformations in people with 16p11.2 alterations	\$0	Q2.S.G	New York University
Striatal Specific Alterations in Translation, Synaptic Function, and Behavior in	\$81,581	Q2.Other	New York University
Dissecting the Human Magnocellular Visual Pathway in Perceptual Disorders	\$28,000	Q2.Other	New York University
Validity and Reliability of New Standard for Resting fMRI Data	\$84,750	Q2.Other	New York University
Alternative splicing-mediated mechanisms of cortical interneuron maturation and circuit integration	\$98,061	Q2.Other	New York University
THE COGNITIVE SEARCHLIGHT: TRN CIRCUIT DISSECTION IN HEALTH AND DISEASE	\$528,288	Q2.Other	New York University
Dysregulated Translation and Synaptic Dysfunction in Medium Spiny Neurons of Autism Model Mice	\$33,333	Q2.Other	New York University
Role of a novel PRC1 complex in neurodevelopment and ASD neurobiology	\$225,000	Q2.Other	New York University

Project Title	Funding	Strategic Plan Objective	Institution
Neuronal Correlates of Autistic Traits in ADHD and Autism	\$870,670	Q2.Other	New York University
Intrinsic Brain Architecture of Young Children with Autism While Awake and Asleep	\$211,875	Q2.Other	New York University
Neuronal Adaptation and Plasticity after Chronic Disuse	\$423,750	Q2.Other	New York University
Interneuron subtype-specific malfunction in autism spectrum disorders	\$240,000	Q2.Other	New York University
Abnormalities in signal transduction in autism	\$0	Q2.S.A	New York State Institute for Basic Research in Developmental Disabilities
Neural Correlates of the Y Chromosome in Autism: XYY Syndrome as a Genetic Model	\$0	Q2.S.D	Nemours Children's Health System, Jacksonville
CIRCADIAN RHYTHMS IN CHILDREN WITH ASD AND THEIR INFANT SIBLINGS	\$0	Q2.S.E	Naval Medical Research Center
Dysregulation of Protein Synthesis in Fragile X Syndrome and Other Developmental Disorders	\$1,221,847	Q2.S.D	National Institutes of Health
Probing the Molecular Mechanisms Underlying Autism: Examination of Dysregulated Protein Synthesis	\$0	Q2.S.D	National Institutes of Health
Treatment of Medical Conditions among Individuals with Autism Spectrum Disorders	\$528,903	Q2.S.E	National Institutes of Health
Multimodal Characterization of the Brain Phenotype in Children with Duplication of the 7q11.23 Williams Syndrome Chromosomal Region: A Well-defined Genetic Model for Autism	\$0	Q2.S.G	National Institutes of Health
PEDIATRIC BRAIN IMAGING	\$1,507,456	Q2.L.A	National Institutes of Health
LEARNING AND PLASTICITY IN THE HUMAN BRAIN	\$339,183	Q2.Other	National Institutes of Health
FUNCTIONAL ANATOMY OF FACE PROCESSING IN THE PRIMATE BRAIN	\$1,695,557	Q2.Other	National Institutes of Health
ANALYSIS OF CORTICAL FUNCTION	\$222,861	Q2.Other	National Institutes of Health
Regulation of Neuroligins and Effects on Synapse Number and Function	\$995,177	Q2.Other	National Institutes of Health
FUNCTIONAL AND STRUCTURAL OPTICAL BRAIN IMAGING	\$682,022	Q2.Other	National Institutes of Health
The Cognitive Neuroscience of Autism Spectrum Disorders	\$1,125,989	Q2.Other	National Institutes of Health
Speech Phenotype in 16p11.2	\$99,684	Q2.S.G	Murdoch Childrens Research Institute
Mouse model of maternal allergic asthma and offspring autism-like behavioral deficits	\$432,669	Q2.S.A	MOUNT HOLYOKE COLLEGE
Synaptic Phenotype, Development, and Plasticity in the Fragile X Mouse	\$395,642	Q2.S.D	MICHIGAN STATE UNIVERSITY
Time Perception and Timed Performance in Autism	\$219,234	Q2.Other	MICHIGAN STATE UNIVERSITY

Project Title	Funding	Strategic Plan Objective	Institution
CNTNAP2 regulates production, migration and organization of cortical neurons	\$62,500	Q2.Other	Memorial Sloan-Kettering Cancer Center
Analysis of MEF2 in Cortical Connectivity and Autism-Associated Behaviors	\$56,042	Q2.S.D	McLean Hospital
A Novel GABA Signalling Pathway in the CNS	\$50,000	Q2.Other	McLean Hospital
Functional analysis of EPHB2 mutations in autism	\$62,475	Q2.Other	McLean Hospital
Protein Interaction Network Analysis to Test the Synaptic Hypothesis of Autism	\$90,000	Q2.Other	MAYO CLINIC ROCHESTER
The effect of maternal obesity and inflammation on neuronal and microglial functi	\$78,250	Q2.S.A	MAYO CLINIC JACKSONVILLE
Perturbation of Excitatory Synapse Formation in Autism Spectrum Disorders	\$30,000	Q2.Other	Max Planck Florida Institute for Neuroscience
Probing the neural basis of social behavior in mice	\$0	Q2.S.D	Massachusetts Institute of Technology
Role of Serotonin Signaling during Neural Circuitry Formation in Autism Spectrum Disorders	\$0	Q2.S.D	Massachusetts Institute of Technology
Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$0	Q2.Other	Massachusetts Institute of Technology
Characterizing and Manipulating the Social Reward Dysfunction in a Novel Mouse Model for Autism	\$0	Q2.Other	Massachusetts Institute of Technology
Brain Bases of Language Deficits in SLI and ASD	\$616,032	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Synaptic pathophysiology of the 16p11.2 microdeletion mouse model	\$557,176	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Impairments of Theory of Mind disrupt patterns of brain activity	\$321,000	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
CAREER: Typical and atypical development of brain regions for theory of mind	\$0	Q2.Other	Massachusetts Institute of Technology
Shank3 in Synaptic Function and Autism	\$401,250	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
PET/MRI investigation of neuroinflammation in autism spectrum disorders	\$54,400	Q2.S.A	Massachusetts General Hospital
Calcium Channels as a Core Mechanism in the Neurobiology of ASD	\$35,000	Q2.S.D	Massachusetts General Hospital
Translational dysregulation in autism pathogenesis and therapy	\$250,000	Q2.S.D	Massachusetts General Hospital
Genotype to Phenotype Association in Autism Spectrum Disorders	\$30,000	Q2.S.G	Massachusetts General Hospital
The genomic bridge project (GBP)	\$168,600	Q2.S.G	Massachusetts General Hospital
CRISPR/Cas9-Based Functional Characterization of ANK2 Mutations in ASD Neural Circuitry	\$84,431	Q2.S.G	Massachusetts General Hospital
Neuroimaging genetics to study social cognitive deficits in ASD and schizophrenia	\$118,500	Q2.S.G	Massachusetts General Hospital

Project Title	Funding	Strategic Plan Objective	Institution
Local functional connectivity in the brains of people with autism	\$49,961	Q2.L.B	Massachusetts General Hospital
Characterizing Sensory Hypersensitivities in Autism	\$215,214	Q2.L.B	Massachusetts General Hospital
Functional connectivity substrates of social and non-social deficits in ASD	\$701,636	Q2.Other	Massachusetts General Hospital
Mechanotransduction C. elegans	\$588,908	Q2.Other	Massachusetts General Hospital
Dissecting recurrent microdeletion syndromes using dual-guide genome editing	\$580,798	Q2.Other	Massachusetts General Hospital
Classifying autism etiology by expression networks in neural progenitors and differentiating neurons	\$149,999	Q2.Other	Massachusetts General Hospital
Alterations to corticothalamic circuitry in a mouse model of autism	\$74,000	Q2.Other	LOUISIANA STATE UNIV A&M COL BATON ROUGE
Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$0	Q2.Other	Landmark College
Autism phenotypes in Tuberous Sclerosis: Risk factors, features & architecture	\$0	Q2.S.D	King's College London
Identification and Functional Analysis of Risk Genes for Autistic Macrocephaly	\$30,000	Q2.S.G	King's College London
In-vivo MRS assay of brain glutamate-GABA balance and drug response in autism	\$0	Q2.L.B	King's College London
UNS: GARDE: Research to Quantify the Health and Development of Children with Disabilities Around the Clock	\$399,962	Q2.S.E	Kansas State University
The Role of Glia in Fragile X Syndrome	\$0	Q2.S.D	Johns Hopkins University
Role of LIN28/let-7 axis in autism	\$62,500	Q2.Other	Johns Hopkins University
Dynamic regulation of Shank3 and ASD	\$612,287	Q2.Other	Johns Hopkins University
Reducing Diversity at the Gamma Protocadherin Locus by CRISPR Targeting	\$230,739	Q2.Other	JACKSON LABORATORY
Developmental Linkage of Metabolic Homeostasis and Sociality	\$280,918	Q2.S.A	Indiana University
Mapping the Neurobehavioral Phenotype in Phelan McDermid Syndrome	\$0	Q2.S.D	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Genetics of conotruncal defects and associated neurodevelopmental outcomes	\$453,446	Q2.S.E	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Molecular control of prefrontal cortical circuitry in autism	\$211,875	Q2.Other	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Long non-coding RNAs in gene regulatory networks underlying Autism	\$211,875	Q2.Other	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Multigenic basis for autism linked to 22q13 chromosomal region	\$125,000	Q2.S.D	Hunter College of the City University of New York (CUNY) jointly with Research Foundation of CUNY

Project Title	Funding	Strategic Plan Objective	Institution
Role of somatic mosaicism in autism, schizophrenia, and bipolar disorder brain	\$619,801	Q2.S.G	HUGO W. MOSER RES INST KENNEDY KRIEGER
EEG-Based Assessment of Functional Connectivity in Autism	\$175,176	Q2.Other	HUGO W. MOSER RES INST KENNEDY KRIEGER
Direct Examination of Imitation-Based Learning in Autism	\$161,600	Q2.Other	HUGO W. MOSER RES INST KENNEDY KRIEGER
Brain-behavior interactions and visuospatial expertise in autism: a window into the neural basis of autistic cognition	\$44,400	Q2.Other	Hospital Riviere-des-Praires, University of Montreal, Canada
A system-level approach for discovery of phenotype specific genetic variation in ASD	\$0	Q2.S.G	Hebrew University
Microglia in models of normal brain development, prenatal immune stress and genetic risk for autism	\$100,000	Q2.S.A	Harvard University
Neurotrophic Factor Regulation of Gene Expression	\$618,134	Q2.S.D	Harvard University
Neuronal Activity-Dependent Regulation of MeCP2	\$600,383	Q2.S.D	Harvard University
A Novel Essential Gene for Human Cognitive Function	\$35,474	Q2.S.D	Harvard University
Simons Variation in Individuals Project (VIP) Imaging Analysis Site	\$0	Q2.S.G	Harvard University
Undergraduate Research Award	\$0	Q2.S.G	Harvard University
Neural Correlates of Imitation in Children with Autism and their Unaffected Siblings	\$0	Q2.L.B	Harvard University
Development of the Functional Touch Circuit	\$52,406	Q2.Other	Harvard University
Neuregulin 1 (NRG1) in autistic children	\$0	Q2.S.A	Hartwick College
Anti-GAD antibodies in autism	\$0	Q2.S.A	Hartwick College
MIG-6 tumor suppressor gene protein and ERK 1 and 2 and their association with EGF and EGFR in autistic children	\$0	Q2.S.A	Hartwick College
The Social Brain in Schizophrenia and Autism Spectrum Disorders	\$519,563	Q2.Other	HARTFORD HOSPITAL
Maximizing Biospecimen Collection from Children with Mental Health Conditions	\$172,728	Q2.S.C	GROUP HEALTH COOPERATIVE
RI: Small: Addressing visual analogy problems on the raven's intelligence test	\$0	Q2.Other	Georgia Tech Research Corporation
Gesture as a forerunner of linguistic change- insights from autism	\$0	Q2.L.A	Georgia State University
Dysregulation of mTor/Tsc in 22q11DS Autism Model	\$62,500	Q2.S.D	GEORGE WASHINGTON UNIVERSITY
Simons Variation in Individuals Project (VIP) Recruitment Core and Phase 2 Coordination Site	\$436,237	Q2.S.G	Geisinger Clinic
Dimensional analysis of developmental brain disorders using an online, genome-first approach	\$667,178	Q2.S.G	Geisinger Clinic

Project Title	Funding	Strategic Plan Objective	Institution
Identifying the gene in 17q12 responsible for neuropsychiatric phenotypes	\$0	Q2.S.G	Geisinger Clinic
Foundation Associates agreement (BrainNet)	\$625,000	Q2.S.C	Foundation Associates
Development and afferent regulation of auditory neurons	\$376,200	Q2.S.D	Florida State University
Immune p38-alpha MAPK activation: Convergent mechanism linking autism models	\$212,061	Q2.S.A	Florida Atlantic University
MATERNAL BRAIN-REACTIVE ANTIBODIES AND AUTISM SPECTRUM DISORDER	\$0	Q2.S.A	Feinstein Institute for Medical Research
The role of UBE3A in autism: Is there a critical window for social development?	\$54,450	Q2.S.D	Erasmus University Medical Center
Macrophage Polarization and Utility of in Vivo Therapy with a Brain-Permeable Anti-TNF Agent in Models of Autism	\$282,639	Q2.S.A	Emory University
Macrophage Polarization and Utility of in Vivo Therapy with a Brain-Permeable Anti-TNF Agent in Models of Autism	\$246,807	Q2.S.A	Emory University
Tet-mediated Epigenetic Modulation in Autism	\$603,129	Q2.S.D	Emory University
Genetic Modifiers of Seizure Disorders in Fragile X Syndrome	\$261,539	Q2.S.D	Emory University
Imaging of protein synthesis and ubiquitination in fragile x syndrome	\$195,000	Q2.S.D	Emory University
Targeting the PI3K Enhancer PIKE to Reverse FXS-associated Phenotypes	\$160,000	Q2.S.D	Emory University
Predicting risk and resilience in ASD through social visual engagement	\$202,265	Q2.L.B	Emory University
Decoding the RGS14 Interactome/Signalosome in CA2 hippocampal neurons	\$191,640	Q2.Other	Emory University
Ontogeny and neural basis of social visual engagement in monkeys	\$312,542	Q2.Other	Emory University
MRI: Acquisition of an Infrared Eye Tracker to Study the Emergence, Use, Loss, and Requisition of Communication Skills	\$0	Q2.Other	Emerson College
Verbal/non-verbal asynchrony in adolescents with high-functioning Autism	\$376,077	Q2.Other	EMERSON COLLEGE
White matter glial pathology in autism	\$0	Q2.Other	East Tennessee State University
The role of Shank3 in neocortex versus striatum and the pathophysiology of autism	\$0	Q2.S.D	Duke University
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$0	Q2.S.E	Duke University

Project Title	Funding	Strategic Plan Objective	Institution
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$0	Q2.S.E	Duke University
Animal Model of Genetics and Social Behavior in Autism Spectrum Disorders	\$659,700	Q2.S.G	Duke University
Engagement of Social Cognitive Networks during Game Play in Autism	\$29,933	Q2.Other	Duke University
Dissecting Reciprocal CNVs Associated With Autism	\$30,000	Q2.Other	Duke University
Analysis of Shank3 Complete and Temporal and Spatial Specific Knockout Mice	\$425,202	Q2.Other	Duke University
Neuronal Basis of Vicarious Reinforcement Dysfunction in Autism Spectrum Disorder	\$309,592	Q2.Other	Duke University
Mapping functional neural circuits that mediate social behaviors in autism	\$62,500	Q2.Other	Duke University
Presynaptic Fragile X Proteins	\$249,000	Q2.S.D	DREXEL UNIVERSITY
The Impact of Pten Signaling on Neuronal Form and Function	\$405,000	Q2.Other	DARTMOUTH COLLEGE
Excitatory/Inhibitory Imbalance in Autism and Early-course Schizophrenia	\$14,931	Q2.L.B	Connecticut Mental Health Center Yale University
Mitochondrial dysfunction due to aberrant mTOR-regulated mitophagy in autism	\$183,568	Q2.S.A	Columbia University
Molecular analysis of gene-environment interactions in the intestines of children with autism	\$150,000	Q2.S.E	Columbia University
Simons Variation in Individuals Project (VIP) Principal Investigator	\$198,817	Q2.S.G	Columbia University
Simons Variation in Individuals Project (VIP) Statistical Core Site	\$242,046	Q2.S.G	Columbia University
Neural Basis of Deficits in Multisensory Integration in Schizophrenia and ASD	\$30,000	Q2.Other	Columbia University
Understanding the Genetic Architecture of Rett Syndrome - an Autism Spectrum Disorder	\$30,000	Q2.S.D	Cold Spring Harbor Laboratory
The intersection between habit and anxiety in a genetic model of autism	\$62,500	Q2.S.E	Cold Spring Harbor Laboratory
Cell adhesion molecules in autism: a whole-brain study of genetic mouse models	\$521,650	Q2.Other	COLD SPRING HARBOR LABORATORY
New Models For Astrocyte Function in Genetic Mouse Models of Autism Spectrum Diso	\$396,250	Q2.S.D	CLEVELAND CLINIC LERNER COM-CWRU
Testing the ribosomal protein S6 as treatment target and biomarker in autism spectrum disorders	\$0	Q2.S.D	Cincinnati Children's Hospital
Exploration of the development and trajectory of Daily Living Skills in children and adolescents with autism spectrum disorder	\$15,600	Q2.Other	Cincinnati Children's Hospital

Project Title	Funding	Strategic Plan Objective	Institution
The PI3K Catalytic Subunit p110delta as Biomarker and Therapeutic Target in Autism and Schizophrenia	\$45,000	Q2.Other	Cincinnati Children's Hospital
Developmental in Axons underlie Neuropsychiatric Illness	\$30,000	Q2.Other	Children's Research Institute (CRI)
Activity-dependent Mechanisms of Visual Circuit Formation	\$30,000	Q2.Other	Children's Research Institute (CRI)
AUTISM AND OBESITY: CO-OCCURRING CONDITIONS OR DRUG SIDE EFFECTS?	\$0	Q2.S.E	Children's Mercy Hospital
Neural Correlates of the Y Chromosome in Autism: XYY Syndrome as a Genetic Model	\$0	Q2.S.D	Children's Hospital of Philadelphia
Characterizing 22q11.2 abnormalities	\$62,498	Q2.S.D	Children's Hospital of Philadelphia
PPAR/SIRT1 PATHWAY IN C. ELEGANS	\$22,740	Q2.S.D	Children's Hospital of Philadelphia
Simons Variation in Individuals Project (Simons VIP) Functional Imaging Site and Structural Imaging/Phenotyping Site	\$309,295	Q2.S.G	Children's Hospital of Philadelphia
Neurobiological Correlates of Motor Impairment in Children with 16p11.2	\$0	Q2.S.G	Children's Hospital of Philadelphia
Thalamic activity and structure and surface neural oscillations in autism	\$207,016	Q2.Other	Children's Hospital of Philadelphia
Electrophysiological Signatures of Language Impairment in Autism Spectrum Disord	\$312,853	Q2.Other	Children's Hospital of Philadelphia
Structural and Functional Neuroimaging of the Auditory System in Autism	\$158,038	Q2.Other	Children's Hospital of Philadelphia
Explore the pathogenic role of mTor signaling in chr16p11.2 microdeletion	\$60,000	Q2.Other	CHILDREN'S HOSPITAL OF LOS ANGELES
Function and Structure Adaptations in Forebrain Development	\$678,394	Q2.Other	CHILDREN'S HOSPITAL OF LOS ANGELES
Mechanisms of Autonomic Brainstem Development	\$202,500	Q2.Other	CHILDREN'S HOSPITAL OF LOS ANGELES
MRI Biomarkers of Patients with Tuberous Sclerosis Complex and Autism	\$727,821	Q2.S.D	CHILDREN'S HOSPITAL CORPORATION
DEVELOPMENTAL SYNAPTOPATHIES ASSOCIATED WITH TSC, PTEN AND SHANK3 MUTATIONS	\$310,746	Q2.S.G	CHILDREN'S HOSPITAL CORPORATION
1/2-Somatic mosaicism and autism spectrum disorder	\$1,800,263	Q2.S.G	CHILDREN'S HOSPITAL CORPORATION
Electrophysiological Response to Executive Control Training in Autism	\$235,084	Q2.Other	CHILDREN'S HOSPITAL CORPORATION
TrkB agonist therapy for sensorimotor dysfunction in Rett syndrome	\$5,867	Q2.S.D	Case Western Reserve University
Identification of genes responsible for a genetic cause of autism	\$250,000	Q2.Other	Case Western Reserve University
Unreliability of neuronal responses in mouse models of autism	\$62,500	Q2.Other	Carnegie Mellon University

Project Title	Funding	Strategic Plan Objective	Institution
The mechanism of the maternal infection risk factor for autism	\$0	Q2.S.A	California Institute of Technology
Direct recording from autism brains	\$0	Q2.S.E	California Institute of Technology
Direct Recordings from the Brain in Autism	\$60,000	Q2.S.E	California Institute of Technology
Investigating Autism with Direct Intracranial Recordings	\$35,000	Q2.S.E	California Institute of Technology
Linking genetic mosaicism, neural circuit abnormalities and behavior	\$0	Q2.S.D	Brown University
Genetic-imaging study of obsessive compulsive behavior in autism	\$370,245	Q2.S.E	BROWN UNIVERSITY
Development of vision and attention in typical and ASD individuals	\$291,359	Q2.S.G	BROWN UNIVERSITY
Na+-H+ Exchanger Mechanisms in Autism Pathophysiology and Treatment	\$29,475	Q2.Other	Brown University
Autism-linked endosomal mechanisms in neuronal arborization and connectivity	\$406,250	Q2.Other	BROWN UNIVERSITY
Role of the 16p11.2 CNV in autism: genetic, cognitive and synaptic/circuit analyses	\$0	Q2.S.G	Broad Institute, Inc.
Disrupted Homeostatic Synaptic Plasticity in Autism Spectrum Disorders.	\$125,000	Q2.Other	Brandeis University
ELUCIDATING THE FUNCTION OF CLASS 4 SEMAPHORINS IN GABAERGIC SYNAPSE FORMATION.	\$353,931	Q2.Other	BRANDEIS UNIVERSITY
Undergraduate Research Award	\$0	Q2.S.G	Boston University
Artifacts as Windows to Other Minds: Social Reasoning In Typical and ASD Children	\$56,042	Q2.Other	Boston University
Organization of Excitatory and Inhibitory Circuits in ASD	\$395,236	Q2.Other	Boston University
Mechanisms underlying word learning in children with ASD: Non-social learning and	\$172,195	Q2.Other	Boston University
Sex-specific regulation of social play	\$391,250	Q2.S.B	BOSTON COLLEGE
A cerebellar mutant for investigating mechanisms of autism in Tuberous Sclerosis	\$0	Q2.S.D	Boston Children's Hospital
Probing synaptic receptor composition in mouse models of autism	\$124,998	Q2.S.D	Boston Children's Hospital
Simons Variation in Individuals Project (VIP) Site	\$245,108	Q2.S.G	Boston Children's Hospital
Mechanical characterization of brain tissue and individual neurons in Autism Spectrum Disorders	\$0	Q2.Other	Boston Children's Hospital
Neurobiological Mechanism of 15q11-13 Duplication Autism Spectrum Disorder	\$380,625	Q2.S.D	BETH ISRAEL DEACONESS MEDICAL CENTER
Cortical Plasticity in Autism Spectrum Disorders	\$437,188	Q2.Other	BETH ISRAEL DEACONESS MEDICAL CENTER
Motor cortex plasticity in MeCP2 duplication syndrome	\$30,000	Q2.S.D	Baylor College of Medicine

Project Title	Funding	Strategic Plan Objective	Institution
Mechanisms and Rescue of Neural Circuit Dysfunction in Mecp2 Mutant Mice	\$92,578	Q2.S.D	Baylor College of Medicine
Signaling Mechanisms Underlying Epilepsy and Autism Comorbidity	\$415,500	Q2.S.E	Baylor College of Medicine
Simons Variation in Individuals Project (VIP) Site	\$0	Q2.S.G	Baylor College of Medicine
Hippocampal mechanisms of social learning in animal models of autism	\$62,500	Q2.Other	Baylor College of Medicine
Multisensory processing in autism	\$0	Q2.Other	Baylor College of Medicine
The role of the new mTOR complex, mTORC2, in autism spectrum disorders	\$0	Q2.Other	Baylor College of Medicine
Addressing challenges to post-mortem tissue donation in families affected with autism	\$0	Q2.S.C	Autism Science Foundation
Building awareness of the value of brain tissue donation for autism research	\$90,165	Q2.S.C	Autism Science Foundation
Rescuing synaptic and circuit deficits in an Angelman syndrome mouse model	\$60,000	Q2.S.D	Arizona Board of Regents, University of Arizona
Cerebellum and autism: Neural mechanisms and modulation of predictive processing	\$402,769	Q2.Other	AMERICAN UNIVERSITY
Dysregulation of mTOR Signaling in Fragile X Syndrome	\$250,167	Q2.S.D	ALBERT EINSTEIN COLLEGE OF MEDICINE
Dysregulation of mTOR Signaling in Fragile X Syndrome	\$164,833	Q2.S.D	ALBERT EINSTEIN COLLEGE OF MEDICINE
Monoallelic expression in neurons derived from induced pluripotent stem cells	\$35,232	Q2.Other	ALBERT EINSTEIN COLLEGE OF MEDICINE
Monoallelic expression in neurons derived from induced pluripotent stem cells	\$382,268	Q2.Other	ALBERT EINSTEIN COLLEGE OF MEDICINE
Potassium channels as therapeutic targets in autism	\$60,000	Q2.S.D	Administrators of the Tulane Educational Fund

